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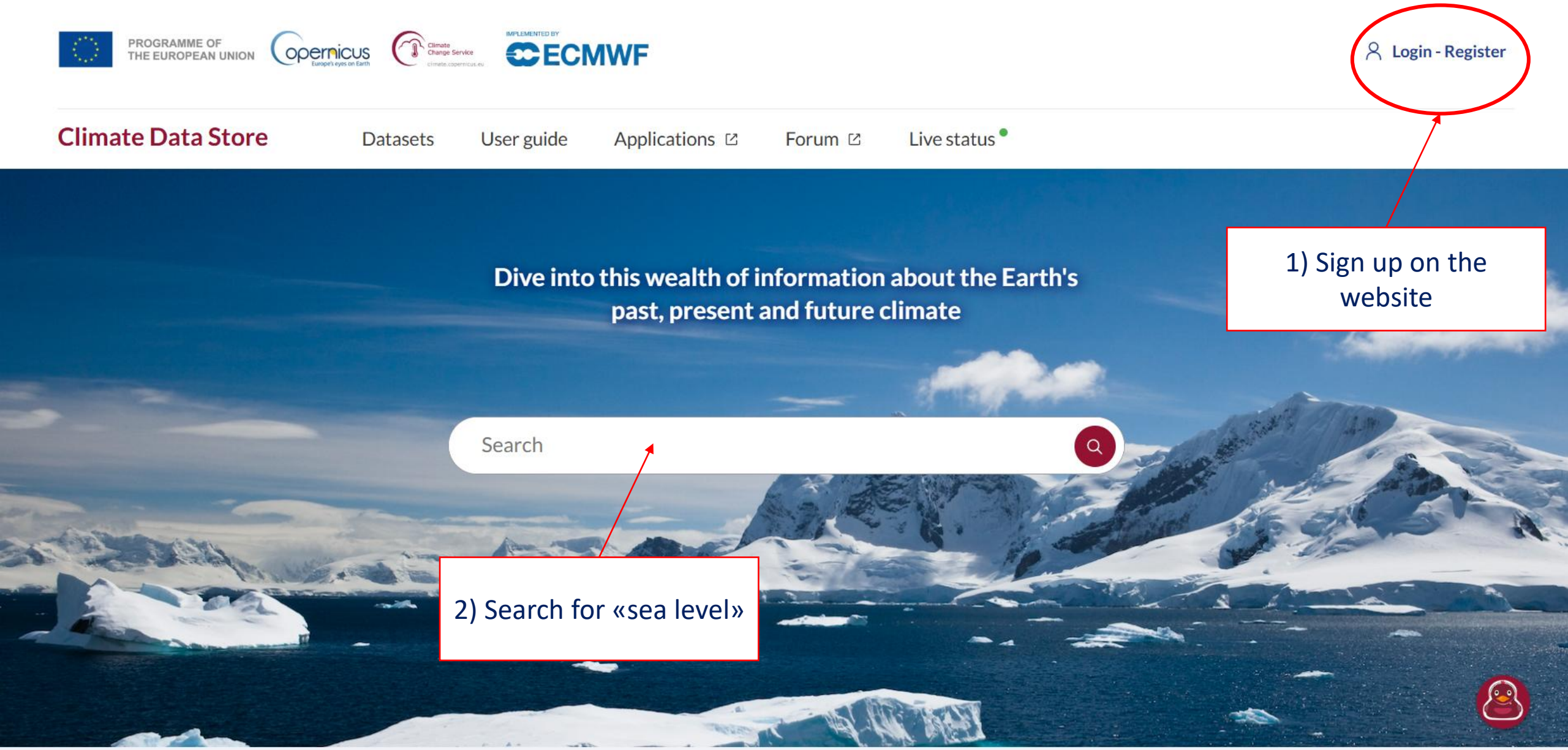

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- [ ] Atmosphere (upper air) 9
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- [ ] Land (hydrology) 1
- [ ] Ocean (biology) 1
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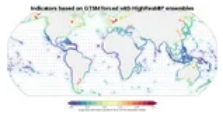
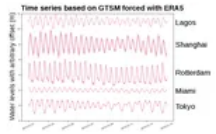


Global sea level change indicators from 1950 to 2050 derived from reanalysis and high resolution CMIP6 climate projections

This dataset provides statistical indicators of tides, storm surges and sea level that can be used to characterize global sea level in present-day conditions and also to assess changes under climate change. The indicators calculated include extreme-value indicators (e.g. return periods including con...

Climate projections | Reanalysis | Copernicus C3S | Global | Future | Past | Ocean (physics)



Global sea level change time series from 1950 to 2050 derived from reanalysis and high resolution CMIP6 climate projections

This dataset provides time series of global sea level related variables including tides, storm surges and sea level rise from 1950 to 2050 based on hydrodynamic modelling. The dataset provides a basis for studies, for instance, aiming to evaluate sea level variability, coastal flooding, coastal eros...

Climate projections | Reanalysis | Copernicus C3S | Global | Future | Past | Ocean (physics)

3) Filter the search results

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Global sea level change time series from 1950 to 2050 derived from reanalysis and high resolution CMIP6 climate projections

Overview | Download | Documentation

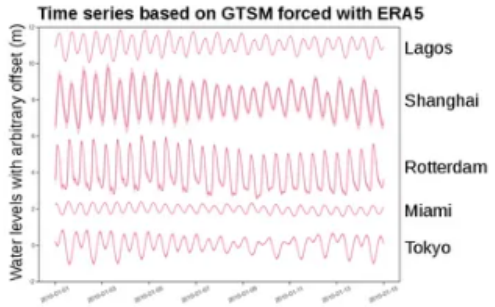
4) Open the download tab

Info

17 Apr 2025

A new version has been added requiring a change to the download form. Users are advised that CDS API requests will need to be updated to accommodate this change. Please see the known issues under the Documentation tab for more information regarding the version update.

This dataset provides time series of global sea level related variables including tides, storm surges and sea level rise from 1950 to 2050 based on hydrodynamic modelling. The dataset provides a basis for studies, for instance, aiming to evaluate sea level variability, coastal flooding, coastal erosion, and accessibility of ports.



The time series are computed using the Deltares Global Tide and Surge Model (GTSM) version 3.0, a hydrodynamic model that dynamically simulates water levels at 10-minute intervals and capable of using input forcing from reanalysis and climate models. The dataset is based on climate forcing from ERA5 global reanalysis and 5 Global Climate Models (GCMs) of the high resolution Coupled Model Intercomparison Project Phase 6 (CMIP6) global climate projection dataset from the High Resolution Model Intercomparison Project (HighResMIP) multi-model ensemble. By making use of the HighResMIP multi-model ensemble, it is possible to quantify the uncertainties associated with the input climate forcing in this dataset.

The simulations for the historical period may be selected from either ERA5 reanalysis or historical simulations

References

Citation and attribution

DOI: 10.24381/cds.a6d42d60

Licence

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Publication date

2022-07-06

Update date

2025-08-14

Standard metadata

STAC

CSW

Related datasets

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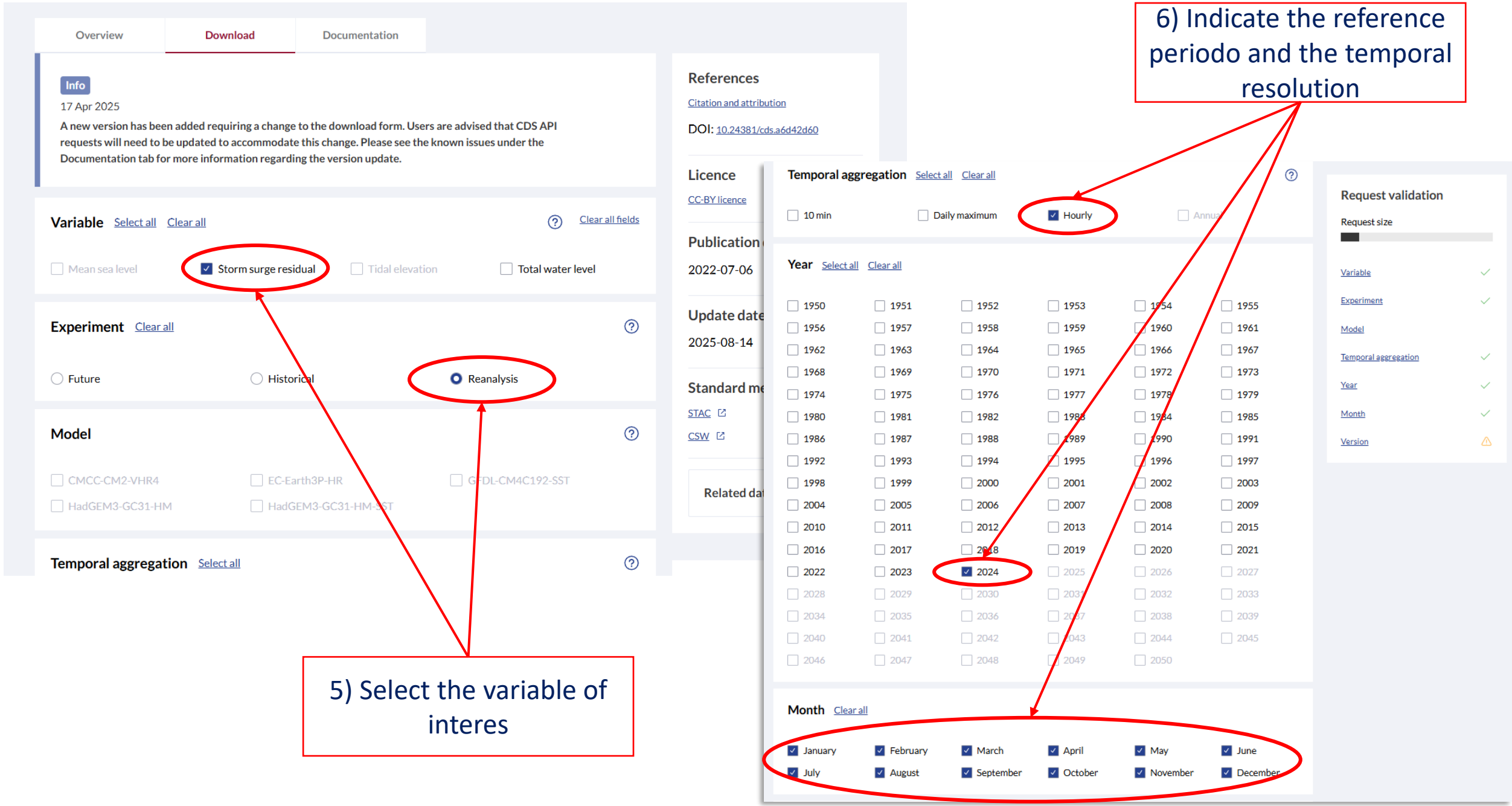

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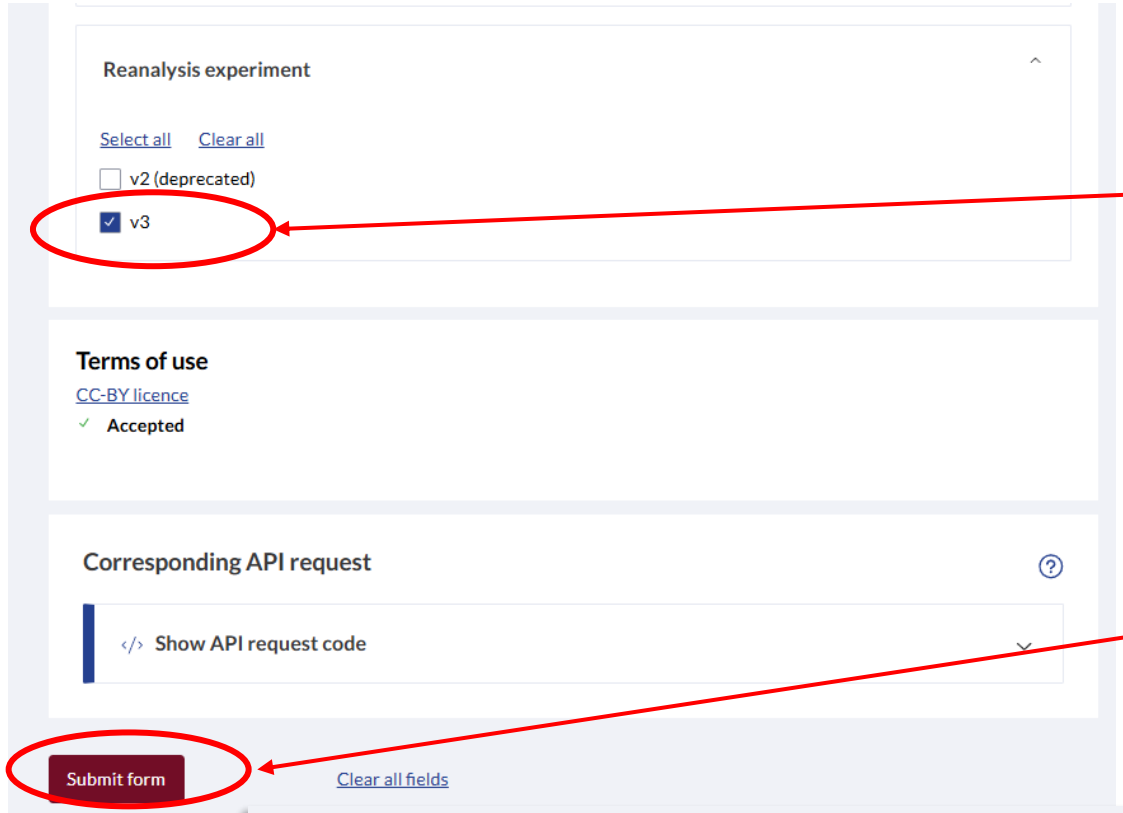

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8) Submit the data request

Note: The data will be downloaded for the entire globe

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